

Request for Certificate of Correction  
37 CFR 1.322 - USPTO Error  
USP 7,064,842/Serial No. 09/480,506

Customer No. 01933

Attorney Docket No. 00009/LH

**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

Patentees : Eiji YAMAMOTO  
Patent No. : USP 7,064,842  
Serial No. : 09/480,506  
Confirm. No.: 4394  
Issued : June 20, 2006  
For : OPTICAL DISPLACEMENT SENSOR  
AND OPTICAL ENCODER

This paper is being submitted via  
EFS-Web on April 23, 2007

In the event that this Paper is  
late filed, and the necessary  
petition for extension of time is  
not filed concurrently herewith,  
please consider this as a Petition  
for the requisite extension of  
time, and to the extent not already  
paid, authorization to charge the  
extension fee to Account  
No. 06-1378. In addition,  
authorization is hereby given to  
charge any fees for which payment  
has not been submitted, or to  
credit any overpayments, to Account  
No. 06-1378.

**Request for Certificate of Correction**  
**Under 37 CFR 1.322 - USPTO ERROR**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

S I R :

It is respectfully requested that a Certificate of  
Correction be issued in accordance with the forms PTO/SB/44 (2  
sheets) submitted herewith, to correct various errors made by the  
USPTO. Specific references to portions of the USPTO records for  
the above identified patent (namely a Petition Decision dated  
April 1, 2005 granting a Petition for Correction of Inventorship  
under 37 CFR 1.48(a), an Amendment under 37 CFR 1.312 filed on  
March 1, 2005, and a Communication from the Examiner dated  
February 17, 2006, entering the Amendment under 37 CFR 1.312) are  
made below to demonstrate that the errors to be corrected by the  
Certificate of Correction are clearly USPTO errors.

The errors to be corrected and the portions in the USPTO records evidencing the USPTO errors are identified below.

1. On the first page of the patent, in item (75) Inventors, delete Jun HANE and Iwao KOMAZAKI. On April 1, 2005, a Petition Decision changing the inventorship of the application by deleting June HANE and Iwao KOMAZAKI was issued by the USPTO. This change is not reflected in item (75) on the first page of the patent.
2. Delete the paragraphs at column 36, lines 22 to 31. On page 2 of the Amendment under 37 CFR 1.312 filed on March 1, 2005, an instruction was given to delete the paragraphs at page 98, lines 13-21 of the application (line 22 should also have been deleted). The Amendment under 37 CFR 1.312 was entered by a Communication dated February 17, 2006. Accordingly, the paragraphs at column 36, lines 22-31 should be deleted.

3. The headings at column 37, lines 21, 22 and 34 should be deleted. The headings at column 37, lines 21 and 22 were printed at page 102, line 19 and page 103, line 1 of the application and should have been deleted in accordance with the instruction at the top of page 6 of the Amendment under 37 CFR 1.312 to delete the paragraphs at page 102, line 19 to page 103, line 1. The heading at column 37, line 34 was printed at page 103, line 16 of the application and should have been deleted in accordance with the instruction in the middle of page 7 of the Amendment under 37 CFR 1.312 to delete the paragraphs at page 103, lines 16-20.
4. The heading at column 38, line 10 should be deleted. The heading at column 38, line 10 was printed at page 105, line 25 of the application and should have been deleted in accordance with the instruction at the bottom of page 8 of the Amendment under 37 CFR 1.312 to delete the heading at page 105, line 24.
5. At column 39, line 11, between "that" and "light" the missing text --return light noise is generated by the light that returns to the-- should be inserted, and at

column 39, line 15, between "light and "interference" the missing text --source is changed, a change in the pitch of the diffraction-- should be inserted. The paragraph at column 39, lines 9 to 19 was printed at page 109, lines 11-18 of the specification and was amended on page 12 of the Amendment under 37 CFR 1.312. The amended paragraph in the Amendment under 37 CFR 1.312 was not correctly printed at column 39, lines 9-19 of the patent.

6. At column 39, between lines 50 and 51, the entire paragraph:

--The second light beam that has been split by the beam-splitting optical element is irradiated on the second scale pattern, which may have a uniform reflectance, transmissivity or diffraction efficiency.--

should be inserted. This paragraph was amended at the top of page 15 of the Amendment under 37 CFR 1.312 and was omitted from the patent.

7. At column 40, between lines 37 and 38, the entire paragraph:

--The second light beam that has been split by the beam-splitting optical element and irradiated on the second scale pattern having a uniform reflectance, transmissivity or diffraction efficiency, may then be irradiated on a third beam-splitting optical element where its principal axis is deflected again so that the light beam is led to the second photosensor.--

should be inserted. This paragraph was amended at the top of page 19 of the Amendment under 37 CFR 1.312 and was omitted from the patent.

8. The heading at column 40, line 50 should be deleted. The heading at column 40, line 50 was printed at page 116, line 22 of the application and should have been deleted in accordance with the instruction in the middle of page 19 of the Amendment under 37 CFR 1.312 to delete the heading at page 116, line 22.

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In view of the foregoing, it is respectfully submitted that the errors to be corrected by the Certificate of Correction are clearly USPTO errors, and favorable action on this Request for Certificate of Correction is respectfully requested.

It is respectfully submitted that no fee is required. Nevertheless, authorization is hereby given to charge any necessary fee to Account No. 06-1378.

Respectfully submitted,

/Douglas Holtz/

Douglas Holtz  
Reg. No. 33,902

Frishauf, Holtz, Goodman & Chick, P.C.  
220 Fifth Avenue - 16<sup>th</sup> Floor  
New York, NY 10001-7708  
Tel. No. (212) 319-4900  
Fax No. (212) 319-5101  
DH:iv  
encs.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 2

PATENT NO. : 7,064,842  
APPLICATION NO.: 09/480,506  
ISSUE DATE : June 20, 2006  
INVENTOR(S) : Eiji YAMAMOTO

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the first page of the patent, in item (75) Inventors, delete "June Hane, Hachioji (JP); Iwao Komazaki, Urawa (JP)".

Column 36, lines 22 to 31, delete the entire paragraphs:  
"(Corresponding Embodiment of Invention and its Operation and Effect)

The embodiments and the operations and effects of the inventions of claims 4 and 5 described latter correspond to the first embodiment and the operation and effect of this embodiment.  
(Corresponding Embodiment of Invention)

The invention of claim 6 described latter corresponds to the first embodiment of this invention."

Column 37, line 21, delete "(Corresponding Embodiment of Invention"; line 22, delete "(Operation and Effect)"; line 34, delete "(Corresponding Embodiment of Invention".

Column 38, line 10, delete "(Operation and Effect)".

Column 39, lines 11 and 12, "it should be noted that light source" should read --it should be noted that return light noise is generated by the light that returns to the light source--; lines 15 and 16, "between the scale and light interference pattern" should read --between the scale and light source is changed, a change in the pitch of the diffraction interference pattern--; between lines 50 and 51, insert the entire paragraph:

-- The second light beam that has been split by the beam-splitting optical element is irradiated on the second scale pattern, which may have a uniform reflectance, transmissivity or diffraction efficiency.--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Frishauf, Holtz, Goodman & Chick, P.C.  
220 Fifth Avenue FL 16  
New York, NY 10001-7708

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 2

PATENT NO. : 7,064,842  
APPLICATION NO.: 09/480,506  
ISSUE DATE : June 20, 2006  
INVENTOR(S) : Eiji YAMAMOTO

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 40, between lines 37 and 38, insert the entire paragraph:

-- The second light beam that has been split by the beam-splitting optical element and irradiated on the second scale pattern having a uniform reflectance, transmissivity or diffraction efficiency, may then be irradiated on a third beam-splitting optical element where its principal axis is deflected again so that the light beam is led to the second photosensor.--.

Column 40, line 50, delete "(Corresponding Embodiment of Invention)".

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220 Fifth Avenue FL 16  
New York, NY 10001-7708

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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